

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/786,970A

Source: \_\_\_\_\_

Date Processed by STIC: \_\_\_\_\_

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:15

Input Set : N:\CrF3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

```

1 <110> APPLICANT: JOAN, KNOLL
2   ROGAN, PETER
3 <120> TITLE OF INVENTION: SINGLE COPY GENOMIC HYBRIDIZATION PROBES AND METHOD OF
GENERATING SAME
4 <130> FILE REFERENCE: 30307
5 <140> CURRENT APPLICATION NUMBER: US/10/786,970A
6 <141> CURRENT FILING DATE: 2004-02-24
7 <150> PRIOR APPLICATION NUMBER: US/09/573,080
8 <151> PRIOR FILING DATE: 2000-05-16
9 <160> NUMBER OF SEQ ID NOS: 479
10 <170> SOFTWARE: PatentIn version 3.0
12 <210> SEQ ID NO: 1
13 <211> LENGTH: 171
14 <212> TYPE: DNA
15 <213> ORGANISM: Homo sapiens
16 <220> FEATURE:
17 <221> NAME/KEY: repeat_region
18 <222> LOCATION: (1)..(171)
19 <223> OTHER INFORMATION: ALR
20 <300> PUBLICATION INFORMATION:
21 <301> AUTHORS: Jurka, J; Walichiewicz, J; Milosavljevic, A
22 <302> TITLE: Prototypic sequences for human repetitive DNA
23 <303> JOURNAL: Journal of Molecular Evolution
24 <304> VOLUME: 35
25 <305> ISSUE: 4
26 <306> PAGES: 286-291
W--> 27 <307> DATE: 1992-10-__
28 <308> DATABASE ACCESSION NO: Database of repetitive elements (replibase)
W--> 29 <309> DATABASE ENTRY DATE: __-__-__
W--> 30 <309> DATABASE ENTRY DATE: 1996-01-26
31 <400> SEQUENCE: 1
32   aattctcagt aacttccttg tggtgtgtgt attcaactca cagagttgaa cgatccttta      60
33   cacagagcag acttgaaaaca ctcttttttgt ggaatttgca agtggagatt tcagccgctt    120
34   tgagggtcaat ggtagaatag gaaatatctt cctatagaaa ctagacagaa t              171
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 290
38 <212> TYPE: DNA
39 <213> ORGANISM: Homo sapiens
40 <220> FEATURE:
41 <221> NAME/KEY: repeat_region
42 <222> LOCATION: (1)..(290)
43 <223> OTHER INFORMATION: Alu
44 <300> PUBLICATION INFORMATION:
45 <300> PUBLICATION INFORMATION:

```

## RAW SEQUENCE LISTING

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:15

Input Set : N:\Crif3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

```

46 <301> AUTHORS: Jurka, J; Walichiewicz, J; Milosavljevic, A
47 <302> TITLE: Prototypic sequences for human repetitive DNA
48 <303> JOURNAL: Journal of Molecular Evolution
49 <304> VOLUME: 35
50 <305> ISSUE: 0
51 <306> PAGES: 286-291
W--> 52 <307> DATE: 1992-10-__
53 <308> DATABASE ACCESSION NO: Database of repetitive elements rebase
W--> 54 <309> DATABASE ENTRY DATE: ____-__-__
W--> 55 <309> DATABASE ENTRY DATE: 1996-01-26
56 <400> SEQUENCE: 2
57      ggccggggcg ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggagga      60
58      tcacttgagc ccaggagttc gagaccagcc tgggcaacat agtgaaaccc cgtctctaca      120
59      aaaaatacaa aaattagccg ggcggtggtg cgcgcgccctg tagtcccagc tactcgggag      180
60      gctgaggcag gaggatcgct tgagcccggg aggtcgaggc tgcagtgagc cgtgatcgcg      240
61      ccactgcact ccagcctggg cgacagagcg agaccctgtc tcaaaaaaaaa      290
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 68
65 <212> TYPE: DNA
66 <213> ORGANISM: Homo sapiens
67 <220> FEATURE:
68 <221> NAME/KEY: repeat_region
69 <222> LOCATION: (1)..(68)
70 <223> OTHER INFORMATION: bsr
71 <300> PUBLICATION INFORMATION:
72 <300> PUBLICATION INFORMATION:
73 <301> AUTHORS: Jurka, J; Walichiewicz, J; Milosavljevic, A
74 <302> TITLE: Prototypic sequences for human repetitive DNA
75 <303> JOURNAL: Journal of Molecular Evolution
76 <304> VOLUME: 35
77 <305> ISSUE: 4
78 <306> PAGES: 286-291
W--> 79 <307> DATE: 1992-10-__
80 <308> DATABASE ACCESSION NO: Database of repetitive elements (rebase)
W--> 81 <309> DATABASE ENTRY DATE: ____-__-__
W--> 82 <309> DATABASE ENTRY DATE: 1996-01-26
83 <400> SEQUENCE: 3
84      gatcagtgca gagatatgtc acaatgcccc tgtaggcaga gcctagacaa gagttacatc      60
85      acctgggt                                     68
87 <210> SEQ ID NO: 4
88 <211> LENGTH: 382
89 <212> TYPE: DNA
90 <213> ORGANISM: Homo sapiens
91 <220> FEATURE:
92 <221> NAME/KEY: repeat_region
93 <222> LOCATION: (1)..(382)
94 <223> OTHER INFORMATION: cer
95 <300> PUBLICATION INFORMATION:
96 <300> PUBLICATION INFORMATION:

```

## RAW SEQUENCE LISTING

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:15

Input Set : N:\CrF3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

```

97 <301> AUTHORS: Jurka, J; Walichiewicz, J; Milosavljevic, A
98 <302> TITLE: Prototypic sequences for human repetitive DNA
99 <303> JOURNAL: Journal of Molecular Evolution
100 <304> VOLUME: 35
101 <305> ISSUE: 4
102 <306> PAGES: 286-291
W--> 103 <307> DATE: 1992-10-__
104 <308> DATABASE ACCESSION NO: Database of repetitive elements (repbase)
W--> 105 <309> DATABASE ENTRY DATE: __-__-__
W--> 106 <309> DATABASE ENTRY DATE: 1996-01-26
107 <400> SEQUENCE: 4
108      ctgcagaaca ctacttccag ggtctaaatg tctgtccttc acataggatt ccagaacact      60
109      gctacgagag tgtgaatggt tgtccttcac atagcatttc acaactgccca tggctctgaat      120
110      ggttgtccct cacatagtat tccagaacac tgctatgagg gtctgaatgt ttgtacctca      180
111      cataggattc cagaacactg ctatgagggt ctgaatgttt gtacctcaca taggattcca      240
112      gaacactgct atgagtgttt gaaagtttgt cctcacata ggattccaga agactgctgc      300
113      tggggtctga atgtctgtcc ctcacatcgg attccagaac cctgctgctg gggtttgaat      360
114      gtctgtccct cacatagaat tc                                     382
116 <210> SEQ ID NO: 5
117 <211> LENGTH: 2739
118 <212> TYPE: DNA
119 <213> ORGANISM: Homo sapiens
120 <220> FEATURE:
121 <221> NAME/KEY: repeat_region
122 <222> LOCATION: (1)..(2739)
123 <223> OTHER INFORMATION: charlie1
124 <221> NAME/KEY: misc_feature
125 <223> OTHER INFORMATION: n is a, c, g or t
126 <300> PUBLICATION INFORMATION:
127 <308> DATABASE ACCESSION NO: Database of repetitive elements (repbase)
128 <309> DATABASE ENTRY DATE: 1996-01-26
W--> 129 <400> 5
130      cagcggttct caaagtgtgg tccgcggacc cctgagggtc cccgagaccc tttcaggggg      60
131      tccgcgaggt caaaactatt ttcataataa tactaagacg ttatttgcct ttttactctt      120
132      cattctctca cgagtgtaca gtggagtttt ccagaggcta catgacgtgt gatgacatca      180
133      tcgctctgat ggctaagtga atgtgtgctt gtgtattctt gtgttttcta aaatttttaa      240
134      ggtagtaggt ttagggtata aatatgtagg ttttcagaga ttaactcagt ttsttcttag      300
135      cacttctacc gtgctcttac tagctatctt cagttatacc tgctataatc tttgtaacct      360
136      cattatcgtc caataaatca ttatttttraa atcctaaagt tttcctcgwg cctatgtgaa      420
137      aacacaagaa gcaagtacta cttgtaaaac ttgcttgcaa taacattttg aaaatttccc      480
138      aatgttttaa attttatcga caacatatag aatttaatat tttattctaa aataaaaaatt      540
139      tatttataaw gtttttccta tatttaaggg tggattgttg gcttaaaaaa gggagattag      600
140      aagactcgct ttctcaaccc acagctgcam catctatgtc taaagatgct gaaatggaca      660
141      taccagcaag ttctctgatt cctcatggaa rggaggaatc tactccaaag aaactgggag      720
142      aaactgtaaa taaaaaacaa aaatatgata aaagctatct tctcagcttt atagatgtta      780
143      ataatttacc ttatttgttc ttatgcaaca gaacattttc gaatagtatt atggtgccag      840
144      ttaagttgcg gcatcatttt gagaccaatc attcagagtt taaagaaaaa ggaattaaat      900
145      attttaaacg tagatgtgat gagctcttta aaagccaaaa attgtttgtt gcagcttttc      960
146      aaactagaaa tgaaaaagcc actgaagcat cttacaggat aagttgccay attgcattgg      1020

```

## RAW SEQUENCE LISTING

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:15

Input Set : N:\Crf3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

```

147      ctggagaagc mcacacaata actgagagac taataaagcc tcgaacagtt gacattgctg      1080
148      aatgcctgct ggatgaaaag tcagtaaaag aaatcatagc actgccactt tccaatgata      1140
W--> 149      cgataactcg tcaaattaaa gatttagctg caaacatgaa gaccgagtta atatntcatc      1200
150      tgcagaattg tacttttgcc ttacaaatgg acgaatctac agatgtkgct agacttgctg      1260
151      tggtgcttgc gttcgtctgg tatcagcacc aactgatcat cgaagaactt cttttatgtg      1320
152      aattcttggc aacaaacaca agtgggtgatg aaatattcaa agtggtgaat gacttttttg      1380
153      aatctcatga tttatcctgg aacaactgtg ttgacatttg cactgatggg gcaaaagcaa      1440
154      tgggtgggtaa aactgctggc gccttagcac gaatcaaggc agtggcacca aactgtacta      1500
155      gtagtcattg tattcttcac cgccacgcac tcgcagtwaa aaaaatgcc a gtttcactta      1560
156      agaatgtcct tgatgaagca gtaaaaatta ttaattttat taaatctcaa cccttgagta      1620
157      cagtcctttt taatattctg tgtgacaaaa tgggaagtac gcataaagca cttctgctgc      1680
158      ataccgaagt acgatgggtg tctcgaggaa aagcacttgt gcgattgttt gagggtgcgag      1740
159      ctgaagaagt tgcttttttc atggaacacc atttttactt gaaagaacga ctgacagaca      1800
160      aactatgggtt attcagactt gggatatttg cagacatttt ctcgaaaatg aacgaagtga      1860
161      gcctgtcact tcaaggaaaa caactgacag tatttggtgc caatgataaa attcgagctt      1920
162      tcaagcgaaa attagaattt tggaaaactt gtatccgcca ccgtgagctt gacagcttcc      1980
163      caatacttaa agacttttct gatgagatcg gtggtgatat taacgaatgt gattttttga      2040
164      tattgtataa tgaaatgtgt caacatttgg aagatctgca taactcagtg aaccaatatt      2100
165      ttccaaatga ccaatgcatg atgttacaaa atcatgcatg ggtaaaagat ccattcaaag      2160
166      tgcaagatag accaatggat tttaatgtaa cagagtatga aaagttcatt gatatgggtt      2220
167      cagattccac attgcaacta acctttaaga aactaccact tgtcgagttt tgggtgtagta      2280
168      tcaaagaaga atatccacaa ttatctgaaa aggctattaa aatactcctc ccttttccaa      2340
169      ctacatatct gtgtgaggcc agatttttctt catatacttc aaccaaaaca acatatcgca      2400
170      acagattgaa tgcagaagca gatatgagaa tccagctgtc ttctattaag ccagacatta      2460
171      aagagatttg caaaaatgta aaacaatgcc actcttctca ctaaattttt ttgttttgga      2520
172      aaatatagtt atttttcata aaaatgttat ttatgttaac atgtaatggg tttattattt      2580
173      twaaatgaat waataaatat tttaaaaatt tctcagtttt aatttctaata acggtaataa      2640
174      tcgatagata taaccacat aaacaaaagc tctttggggg cctcaataat ttttaagagt      2700
175      ataaaggggt cctgagacca aaaagtttga gaaccgctg      2739
177 <210> SEQ ID NO: 6
178 <211> LENGTH: 2760
179 <212> TYPE: DNA
180 <213> ORGANISM: Homo sapiens
181 <220> FEATURE:
182 <221> NAME/KEY: misc_feature
183 <223> OTHER INFORMATION: n is a, c, g or t
184 <300> PUBLICATION INFORMATION:
185 <300> PUBLICATION INFORMATION:
186 <301> AUTHORS: Jurka, J; Walichiewicz, J; Milosavljevic, A
187 <302> TITLE: Prototypic sequences for human repetitive DNA
188 <303> JOURNAL: Journal of Molecular Evolution
189 <304> VOLUME: 35
190 <305> ISSUE: 4
191 <306> PAGES: 286-291
W--> 192 <307> DATE: 1992-10-__
193 <308> DATABASE ACCESSION NO: Database of repetitive elements (repbase)
W--> 194 <309> DATABASE ENTRY DATE: ____-__-__
W--> 195 <309> DATABASE ENTRY DATE: 1996-01-26
196 <400> SEQUENCE: 6

```

## RAW SEQUENCE LISTING

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:15

Input Set : N:\CrF3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

```

197      cagtgggtcctt caaactgggg tatacatacc cctgggggta catgaagact ttccaagggg      60
198      tatgcggggca cggatagttt taagggaatc aatttccaga tcttcarctt ccatatgtac      120
W--> 199      tcttttctaa aactgatctg cctgagaacg cgcctgtggc gagggcctgc cgnctttccc      180
200      acttcccctt tcacgatcgc ctttctccca ctttacaaaa gaaaggcata cctctcacc      240
201      atcccgaatc ttactatggt gcattgccct ggggtgtaaa aacctccggg gcaccaaaca      300
202      aagggacaat tcgaaatact ggtgttggtg aagcctcctt taatcaaggc accataarcc      360
203      cgnngtacag ttttatgtct tccctggcct tayaaatatt tctgttaagg gtaaagcatg      420
204      atgttggaac aaggtacttt ggcycatgtt ggggtgttct gaattcagat atatcntaga      480
205      gtgggggtgtt gggagtgatg acgatttttn cttgacgatg ttgcttcttc catcnctatt      540
206      nacaaagaat acattgctcc tgaggaagag tcttgagagc aaagcaaaga gaacattgnt      600
207      aagaaatggc gaagatggca gtgcnttatt tcatccaggt gacaaactca tggcgaggtc      660
208      tatctatctg akagttggaa tattcaagat wtgkaaaagg cattctggga aataccaatc      720
209      ngctacgaag catgcctcct ctgcactttc accattctca gtantgagaa agagcttggt      780
210      gagtactctc attcacctgc gtcttagtct gkgctctcagt tgcataattt gcatgatttc      840
211      aaggmggtgg aggcgaaaag ctctgcaatt acttctaaca gatcaacatt acattttcaa      900
212      gtaaaaggaa catatattgg aggttaagtm rtgtatkcta ttttcttgaa cattttattca      960
213      gattmatagg agaaacattt tcattaactt ttgccaaaga tttctagata gtgtaaatat      1020
214      atttttctat ttaggcamaa gtctcctgct cactgtcact catgaacmac ttctctgttc      1080
215      atttattnat tcctaccata tacttactag agttagatta anttaacagg aatatgttgc      1140
216      agattctact gtaantaatg cacwtaatag cagtcagtaa tataactttt gtaaacccat      1200
217      anttattaat gatccaatan cttctctctc nttttgctgw cgatttccac aaagtagatt      1260
218      aaactgtact cttaaaagca gaacattcac ttatgtacga gtgcaggaca gaatgttcca      1320
219      aaatgcaats tagaatgcca tgcccwgaac ttcagaaaac cagcttcact taattaggat      1380
220      taatttctcc cgctcggang ctaataact gttttanttc tgtcaaatgn atnattataa      1440
221      gtaataattt ttnacaataa cgaaattant antatataca tgaatannct caagtgtccg      1500
222      tccctctgtc atatttttaa aatgcatttn gagacgttct taaaaaatga aatwtggtat      1560
223      tgnntatagg tctctgttcg tagtcgakga gamaagtccc caaatncaca atttacaatt      1620
224      tttcgwtttt tccaactcct tccatgtata ttgaggtcca taagcaaggt gcctctaagt      1680
225      gaaagagtga caggnataat taatagtcat ttgataagtc ttggtgaagc cttttgggta      1740
226      tacttcctag aaactgagaa agtgaatgac tctaattgact gggtaacaaa tcccttttgca      1800
227      agtcaggtgg tttccaattc tttgctttca acaaaaattga aggaggacct aatcgagttg      1860
228      tcagctgaca gatcattaaa aataattttt gatgatagat caytatgtga tttttggcat      1920
229      ataactcgga aggagttcaa agaattgagt gacattgcta taacaaaact ccttccattc      1980
230      ccatctactt atttatgtga acaagrtttc tcagcgctta catctataaa aatgaaaaat      2040
231      aggaatagaa ttgatgctga actctgtctc attctagcaa taagtaatat tcatccacgg      2100
232      atacatgaac taattgggga aacaaggccc catccatctc attaagagat gcatttccaa      2160
233      taaaatttta ctttttatgt ttawtattta tcaaaatttg taatatgttt atgttggttt      2220
234      gatcaattgt atattaataa taattgtaat gataactcaa tccagaagaa aawttttaac      2280
235      acttagagcc ttatgggtcan arkaaataa aaaaattaaa tttcaattta tatacatatt      2340
236      tttgttgagc agaagtatga taggggtgac aataaaagac tttcaagcat aaaaatatat      2400
237      tacattagga taaaattctg tggggggaagt ggaatggaaa tacgagttca aggagaaaaa      2460
238      gagaacaatg taaaatttcc gactgttaaa gaagagcttg ctcatgtatt ttttaaattg      2520
239      atgatggtgg gtatcaaacc gctatgggat ttagattcca ttggatacat ttaaaagagt      2580
240      gatgtaacag ttttatttta aaatgtcaat atttacaata tgccagaaat tacatccttt      2640
241      gcaactattt aaacttatga tgaaaaattt tagatgtcaa cttaaaaatg tgcgagggrg      2700
242      tacatagttt ttcaaaattc ttttagggga tacgcaagca aaaawgtttg aagaccactg      2760
244 <210> SEQ ID NO: 7
245 <211> LENGTH: 2710
246 <212> TYPE: DNA

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/786,970A

DATE: 10/19/2004  
TIME: 09:14:16

Input Set : N:\Crif3\RULE60\10786970A.raw.txt  
Output Set: N:\CRF4\10192004\J786970A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 1195  
Seq#:6; N Pos. 173,363,364,476,510,535,541,599,625,721,764,1088,1122,1155  
Seq#:6; N Pos. 1202,1220,1231,1399,1417,1430,1433,1453,1469,1472,1487,1488  
Seq#:6; N Pos. 1530,1564,1606,1695,2300  
Seq#:7; N Pos. 744,747,954,1703  
Seq#:8; N Pos. 91,143,413,786,838,918,1043,1212,1257,1258,1305,1709  
Seq#:9; N Pos. 37,47,50,54,104,115,135,149,156,179,246,258,293,321,338,359  
Seq#:9; N Pos. 415,501,533,566,630,646,669,673,713,745,764,808,811,877,882  
Seq#:9; N Pos. 908,993,1023,1049,1100,1204,1228,1255,1266,1269,1284,1292  
Seq#:9; N Pos. 1298,1299,1335,1483,1494,1590,1608,1610,1621,1665,1672,1733  
Seq#:9; N Pos. 1824,1930,2014,2047,2198,2211,2220,2221,2222,2452,2453,2466  
Seq#:9; N Pos. 2486,2555,2623,2683,2742  
Seq#:10; N Pos. 377,580,651,664,725,728,1095,1151,1281,1351,1370,1385,1885  
Seq#:10; N Pos. 1912,1990  
Seq#:11; N Pos. 199  
Seq#:13; N Pos. 2326  
Seq#:15; N Pos. 347,545  
Seq#:16; N Pos. 113,268,417,449,453,466,493,547,555,597  
Seq#:17; N Pos. 34,51,380,415,459,522,553,864,975,1017  
Seq#:18; N Pos. 391,512,645,860,881,905,907,1252,1337,1392,1832,1881,1885  
Seq#:18; N Pos. 1935,2159,2161,2174,2334,2348,2350,2438,2442,2454  
Seq#:20; N Pos. 71,99,252,253,421,516,677,712,812,1249,1424,1496,1522,1565  
Seq#:20; N Pos. 1566,1683,1684,1845,1951,2102,2108,2117,2274,2392,2459,2564  
Seq#:20; N Pos. 2568,2572,2628,2648,2654,2791,2809,2813,2814,2926,2928,2930  
Seq#:20; N Pos. 2982,2988,2993,2995,2997,3004,3019,3075,3092,3097,3098,3099  
Seq#:20; N Pos. 3100,3101,3102,3103,3104,3105,3106,3107,3108,3109,3110,3111  
Seq#:20; N Pos. 3112,3113,3114,3115,3116,3117,3118,3119,3120,3121,3122,3123  
Seq#:20; N Pos. 3124,3125,3126,3127,3128,3129,3130  
Seq#:29; N Pos. 1202,2310,6848,6902  
Seq#:32; N Pos. 7232  
Seq#:42; N Pos. 8,14,15,16,19,20,26,178,220,234,300,304,313,314,339,340,344  
Seq#:42; N Pos. 349,364,368,370,373,378,384,386,389,390,395,396,398,489,534  
Seq#:42; N Pos. 559,595,619,628,655,677,708,852,967,985,1035,1218,1227,1357  
Seq#:42; N Pos. 1359,1381,1382,1384  
Seq#:43; N Pos. 474,586,591,659,680,769,809,810,821,874,876,884,891,901  
Seq#:43; N Pos. 1094,1136,1184,1295,1299,1441,1463,1490,2214,2216,2279,2302  
Seq#:43; N Pos. 2382,2440,2465,2494,2503,2512,2883,2885,2888,2904,3015,3105  
Seq#:43; N Pos. 3114,3151,3202,3335,3373,3500,3651,3676,3696,3726,3793,3800  
Seq#:43; N Pos. 4045,4263,4336,4399,4429,4458,4528,4554,4599,4643,5067,5204  
Seq#:43; N Pos. 5269,5317,5401  
Seq#:48; N Pos. 3,6,11,12,45,50,57,58,65,119,120,122,133,136,147,171,172  
Seq#:48; N Pos. 223,263,264,309,310,314,315,318,319,327,328,333,335,344,360  
Seq#:48; N Pos. 376,560,586  
Seq#:49; N Pos. 2

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/786,970A

DATE: 10/19/2004  
TIME: 09:14:16

Input Set : N:\CrF3\RULE60\10786970A.raw.txt  
Output Set: N:\CRF4\10192004\J786970A.raw

Seq#:52; N Pos. 326  
Seq#:53; N Pos. 96,110,242,296,331,423,610,623,639,684,732,781,862,890,899  
Seq#:53; N Pos. 961,1113,1146,1186,1243,1244,1252,1253,1432,1536,1557,1755  
Seq#:53; N Pos. 1974,2003,2031,2077,2122,2151,2226,2310,2550,2579,2598,2632  
Seq#:53; N Pos. 2634,2643,2680,2698,2725,2759,2807,2909  
Seq#:54; N Pos. 16,159,175,429,463,722,897,1183,1412,1666,1678,1679,1851  
Seq#:54; N Pos. 2231,2513,2640,3388,4479,4559,4684,4771,5753,6084,6104,6132

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 3  
Seq#:60; Line(s) 5044  
Seq#:429; Line(s) 19560  
Seq#:430; Line(s) 19573  
Seq#:431; Line(s) 19586  
Seq#:432; Line(s) 19599  
Seq#:434; Line(s) 19621  
Seq#:435; Line(s) 19635  
Seq#:436; Line(s) 19649  
Seq#:437; Line(s) 19663  
Seq#:438; Line(s) 19677  
Seq#:439; Line(s) 19691  
Seq#:440; Line(s) 19705  
Seq#:441; Line(s) 19719  
Seq#:442; Line(s) 19733  
Seq#:443; Line(s) 19747  
Seq#:444; Line(s) 19760  
Seq#:445; Line(s) 19774  
Seq#:446; Line(s) 19785  
Seq#:447; Line(s) 19796  
Seq#:448; Line(s) 19808  
Seq#:449; Line(s) 19820  
Seq#:450; Line(s) 19832  
Seq#:451; Line(s) 19844  
Seq#:452; Line(s) 19856  
Seq#:453; Line(s) 19868  
Seq#:454; Line(s) 19880  
Seq#:455; Line(s) 19892  
Seq#:456; Line(s) 19904  
Seq#:457; Line(s) 19916  
Seq#:458; Line(s) 19928  
Seq#:459; Line(s) 19940  
Seq#:460; Line(s) 19952  
Seq#:461; Line(s) 19964  
Seq#:462; Line(s) 19976  
Seq#:463; Line(s) 19988  
Seq#:464; Line(s) 20000



RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 10/19/2004  
PATENT APPLICATION: US/10/786,970A      TIME: 09:14:16

Input Set : N:\CrF3\RULE60\10786970A.raw.txt  
Output Set: N:\CRF4\10192004\J786970A.raw

Seq#:465; Line(s) 20012  
Seq#:466; Line(s) 20024  
Seq#:467; Line(s) 20036  
Seq#:468; Line(s) 20048  
Seq#:469; Line(s) 20060  
Seq#:470; Line(s) 20072  
Seq#:471; Line(s) 20084  
Seq#:472; Line(s) 20096  
Seq#:473; Line(s) 20108  
Seq#:474; Line(s) 20120  
Seq#:475; Line(s) 20132  
Seq#:476; Line(s) 20144  
Seq#:477; Line(s) 20156  
Seq#:478; Line(s) 20168

**Invalid <213> Response:**

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464  
Seq#:465,466,467,468,469,470,471,472,473,474,475,476,477,478,479

## VARIABLE LOCATION SUMMARY

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:16

Input Set : N:\CrF3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if n's or Xaa's are present.

in &lt;220&gt; to &lt;223&gt; section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:5; N Pos. 1195  
Seq#:6; N Pos. 173,363,364,476,510,535,541,599,625,721,764,1088,1122,1155  
Seq#:6; N Pos. 1202,1220,1231,1399,1417,1430,1433,1453,1469,1472,1487,1488  
Seq#:6; N Pos. 1530,1564,1606,1695,2300  
Seq#:7; N Pos. 744,747,954,1703  
Seq#:8; N Pos. 91,143,413,786,838,918,1043,1212,1257,1258,1305,1709  
Seq#:9; N Pos. 37,47,50,54,104,115,135,149,156,179,246,258,293,321,338,359  
Seq#:9; N Pos. 415,501,533,566,630,646,669,673,713,745,764,808,811,877,882  
Seq#:9; N Pos. 908,993,1023,1049,1100,1204,1228,1255,1266,1269,1284,1292  
Seq#:9; N Pos. 1298,1299,1335,1483,1494,1590,1608,1610,1621,1665,1672,1733  
Seq#:9; N Pos. 1824,1930,2014,2047,2198,2211,2220,2221,2222,2452,2453,2466  
Seq#:9; N Pos. 2486,2555,2623,2683,2742  
Seq#:10; N Pos. 377,580,651,664,725,728,1095,1151,1281,1351,1370,1385,1885  
Seq#:10; N Pos. 1912,1990  
Seq#:11; N Pos. 199  
Seq#:13; N Pos. 2326  
Seq#:15; N Pos. 347,545  
Seq#:16; N Pos. 113,268,417,449,453,466,493,547,555,597  
Seq#:17; N Pos. 34,51,380,415,459,522,553,864,975,1017  
Seq#:18; N Pos. 391,512,645,860,881,905,907,1252,1337,1392,1832,1881,1885  
Seq#:18; N Pos. 1935,2159,2161,2174,2334,2348,2350,2438,2442,2454  
Seq#:20; N Pos. 71,99,252,253,421,516,677,712,812,1249,1424,1496,1522,1565  
Seq#:20; N Pos. 1566,1683,1684,1845,1951,2102,2108,2117,2274,2392,2459,2564  
Seq#:20; N Pos. 2568,2572,2628,2648,2654,2791,2809,2813,2814,2926,2928,2930  
Seq#:20; N Pos. 2982,2988,2993,2995,2997,3004,3019,3075,3092,3097,3098,3099  
Seq#:20; N Pos. 3100,3101,3102,3103,3104,3105,3106,3107,3108,3109,3110,3111  
Seq#:20; N Pos. 3112,3113,3114,3115,3116,3117,3118,3119,3120,3121,3122,3123  
Seq#:20; N Pos. 3124,3125,3126,3127,3128,3129,3130  
Seq#:29; N Pos. 1202,2310,6848,6902  
Seq#:32; N Pos. 7232  
Seq#:42; N Pos. 8,14,15,16,19,20,26,178,220,234,300,304,313,314,339,340,344  
Seq#:42; N Pos. 349,364,368,370,373,378,384,386,389,390,395,396,398,489,534  
Seq#:42; N Pos. 559,595,619,628,655,677,708,852,967,985,1035,1218,1227,1357  
Seq#:42; N Pos. 1359,1381,1382,1384  
Seq#:43; N Pos. 474,586,591,659,680,769,809,810,821,874,876,884,891,901  
Seq#:43; N Pos. 1094,1136,1184,1295,1299,1441,1463,1490,2214,2216,2279,2302  
Seq#:43; N Pos. 2382,2440,2465,2494,2503,2512,2883,2885,2888,2904,3015,3105  
Seq#:43; N Pos. 3114,3151,3202,3335,3373,3500,3651,3676,3696,3726,3793,3800  
Seq#:43; N Pos. 4045,4263,4336,4399,4429,4458,4528,4554,4599,4643,5067,5204  
Seq#:43; N Pos. 5269,5317,5401  
Seq#:48; N Pos. 3,6,11,12,45,50,57,58,65,119,120,122,133,136,147,171,172  
Seq#:48; N Pos. 223,263,264,309,310,314,315,318,319,327,328,333,335,344,360  
Seq#:48; N Pos. 376,560,586

## VARIABLE LOCATION SUMMARY

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:16

Input Set : N:\Crf3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

Seq#:49; N Pos. 2

Seq#:52; N Pos. 326

Seq#:53; N Pos. 96,110,242,296,331,423,610,623,639,684,732,781,862,890,899

Seq#:53; N Pos. 961,1113,1146,1186,1243,1244,1252,1253,1432,1536,1557,1755

Seq#:53; N Pos. 1974,2003,2031,2077,2122,2151,2226,2310,2550,2579,2598,2632

Seq#:53; N Pos. 2634,2643,2680,2698,2725,2759,2807,2909

Seq#:54; N Pos. 16,159,175,429,463,722,897,1183,1412,1666,1678,1679,1851

Seq#:54; N Pos. 2231,2513,2640,3388,4479,4559,4684,4771,5753,6084,6104,6132

## VERIFICATION SUMMARY

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:16

Input Set : N:\CrF3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

L:27 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:1  
L:29 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:1  
L:52 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:2  
L:54 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:2  
L:79 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:3  
L:81 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:3  
L:103 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:4  
L:105 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:4  
L:129 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:1140  
L:192 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:6  
L:194 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:6  
L:199 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:6  
L:199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:120  
M:341 Repeated in SeqNo=6  
L:262 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:7  
L:264 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:7  
L:266 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:720  
M:341 Repeated in SeqNo=7  
L:332 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:8  
L:334 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:8  
L:336 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:60  
M:341 Repeated in SeqNo=8  
L:400 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:9  
L:402 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:9  
L:404 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
L:405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
M:341 Repeated in SeqNo=9  
L:472 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:10  
L:474 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:10  
L:476 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:360  
M:341 Repeated in SeqNo=10  
L:535 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:11  
L:537 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:11  
L:539 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11  
L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:180  
L:565 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:12  
L:567 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:12  
L:591 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:13  
L:593 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:13  
L:595 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13  
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:2280  
L:663 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:14  
L:665 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:14  
L:693 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:15

## VERIFICATION SUMMARY

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:16

Input Set : N:\Crf3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

L:695 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:15  
L:697 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15  
L:703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:300  
M:341 Repeated in SeqNo=15  
L:738 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:16  
L:740 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:16  
L:742 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16  
L:744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60  
M:341 Repeated in SeqNo=16  
L:774 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:17  
L:776 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:17  
L:778 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17  
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
M:341 Repeated in SeqNo=17  
L:819 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:18  
L:821 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:18  
L:823 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18  
L:830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:360  
M:341 Repeated in SeqNo=18  
L:883 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:19  
L:885 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:19  
L:1053 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:20  
L:1055 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:20  
L:1057 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20  
L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:60  
M:341 Repeated in SeqNo=20  
L:1159 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:21  
L:1161 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:21  
L:1324 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:22  
L:1326 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:22  
L:1447 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:23  
L:1449 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:23  
L:1550 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:24  
L:1552 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:24  
L:1619 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:25  
L:1621 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:25  
L:1655 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:26  
L:1657 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:26  
L:1817 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:27  
L:1819 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:27  
L:1970 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:28  
L:1972 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:28  
L:2103 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:29

L:2105 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:29  
L:2107 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:29  
L:2128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:1200  
M:341 Repeated in SeqNo=29  
L:2242 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY,  
SEQ:30  
L:2244 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:30

## VERIFICATION SUMMARY

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:16

Input Set : N:\CrF3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

L:2393 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:31  
L:2395 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:31  
L:2503 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:32  
L:2505 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:32  
L:2507 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32  
L:2628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:7200  
L:2655 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:33  
L:2657 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:33  
L:2798 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:34  
L:2800 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:34  
L:2953 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:35  
L:2955 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:35  
L:3111 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:36  
L:3113 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:36  
L:3233 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:37  
L:3235 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:37  
L:3369 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:38  
L:3371 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:38  
L:3512 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:39  
L:3514 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:39  
L:3633 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:40  
L:3634 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:40  
L:3740 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:41  
L:3742 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:41  
L:3859 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:42  
L:3861 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:42  
L:3863 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:42  
L:3864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0  
M:341 Repeated in SeqNo=42  
L:3934 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:43  
L:3936 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:43  
L:3938 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:43  
L:3946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:420  
M:341 Repeated in SeqNo=43  
L:4049 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:44  
L:4051 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:44  
L:4195 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:45  
L:4197 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:45

L:4338 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY,  
SEQ:47  
L:4340 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:47  
L:4382 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY,  
SEQ:48  
L:4384 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:48  
L:4386 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:48  
L:4387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0  
M:341 Repeated in SeqNo=48  
L:4417 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY,  
SEQ:49  
L:4419 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:49  
L:4421 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:49  
L:4422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0



## VERIFICATION SUMMARY

DATE: 10/19/2004

PATENT APPLICATION: US/10/786,970A

TIME: 09:14:16

Input Set : N:\CrF3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

L:4440 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:50  
L:4442 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:50  
L:4484 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:51  
L:4486 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:51  
L:4530 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:52  
L:4532 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or Mon-YYYY, SEQ ID:52  
L:4534 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:52  
L:4540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:300  
L:4573 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:53  
L:4575 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:60  
M:341 Repeated in SeqNo=53  
L:4649 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:54  
L:4650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0  
M:341 Repeated in SeqNo=54  
L:4822 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:55  
L:4823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0  
M:341 Repeated in SeqNo=55  
L:4848 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:56  
L:4851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:120  
M:341 Repeated in SeqNo=56  
L:4910 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:58  
L:4913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:120  
M:341 Repeated in SeqNo=58  
L:5053 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:60  
L:5054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0  
M:341 Repeated in SeqNo=60  
L:5109 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61  
L:5116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:360  
M:341 Repeated in SeqNo=61  
L:5182 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:62  
L:5183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0  
M:341 Repeated in SeqNo=62  
L:5270 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:63  
L:5324 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:64  
L:5418 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66  
L:5465 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67  
L:5499 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68  
L:5536 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:69  
L:5580 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:70  
L:5672 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:72  
L:5714 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:73  
L:5796 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:75  
L:5876 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:77  
L:5966 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:79  
L:6008 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:80  
L:6074 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:81  
L:6144 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:82  
L:6176 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:83  
L:6210 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/786,970A

DATE: 10/19/2004

TIME: 09:14:16

Input Set : N:\Crf3\RULE60\10786970A.raw.txt

Output Set: N:\CRF4\10192004\J786970A.raw

L:6243 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:85  
L:6278 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:86  
L:6306 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:87  
L:6359 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:89  
L:6390 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:90  
L:8929 M:281 W: Numeric Fields not Ordered, <308> Sort in ascending order!  
L:9199 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:166  
L:13051 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:262  
L:14846 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:316  
L:14902 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:318  
L:16082 M:281 W: Numeric Fields not Ordered, <308> Sort in ascending order!  
L:16751 M:281 W: Numeric Fields not Ordered, <308> Sort in ascending order!  
L:17715 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:385  
L:18134 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:398  
L:18939 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:422  
L:19563 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:429  
L:19576 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:430  
L:19589 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:431  
L:19602 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:432  
L:19611 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:433  
L:19625 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:434  
L:19639 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:435  
L:19653 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:436  
L:19667 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:437  
L:19681 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:438  
L:19695 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:439  
L:19709 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:440  
L:19723 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:441  
L:19737 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:442  
L:19750 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:443  
L:19764 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:444  
L:19788 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:446